

Last information update: December 2024

Product configuration: Q449+R422.01

Q449: PlateDown Office / Working UGR < 19Neutral LEDDALIL 1196

R422.01: Minimal initial module - Down Office / Working UGR < 19 - L1208 - TP(a) - White

**Product code**

Q449: PlateDown Office / Working UGR < 19Neutral LEDDALIL 1196

Technical description

LED module set up for housing in initial or intermediate system profiles with screen for controlled luminance - down emission. DALI dimmable control gear integrated in the luminaire. Extruded aluminium heat sink; high emission yield flux enhancer. Neutral LED.

Installation

Module insertion on profiles facilitated by a quick coupling system.

Colour

Indeterminate (00)

Weight (Kg)

1.37

Wiring

Quick coupling terminal block connection to simplify connections between the luminaires. LED module complete with integrated dimmable DALI control gear.

Complies with EN60598-1 and pertinent regulations

**Product code**

R422.01: Minimal initial module - Down Office / Working UGR < 19 - L1208 - TP(a) - White

Technical description

Initial profile in extruded aluminium - Minimal (frameless) version for flush with ceiling mounting; micro-prismatic screen for controlled luminance emission UGR < 19 - 3000 cd/m2 (working lighting) in compliance with the TP(a) standard; screen set up for connecting several lengths by overlapping.

Installation

Installation can be recessed, surface, ceiling and pendant-mounted using suitable accessories to be ordered separately. The initial modules can be used individually for various applications if completed with accessory caps and the required LED module.

Colour

White (01)

Weight (Kg)

1.9

Mounting

ceiling recessed|wall surface|ceiling surface|ceiling pendant

Wiring

Set up to house the LED modules required by the system.

Notes

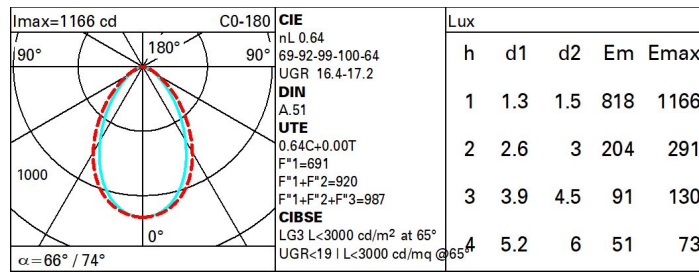
Take care with the system configuration. To make continuous lines of lighting, use the intermediate modules. To complete a continuous line correctly there must always be an initial module at the start or end of the composition.

Complies with EN60598-1 and pertinent regulations

**Technical data**

Im system:	1728	Colour temperature [K]:	4000
W system:	15.6	MacAdam Step:	3
Im source:	2700	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W source:	14	Voltage [Vin]:	230
Luminous efficiency (Im/W, real value):	110.8	Lamp code:	LED
Im in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	64	Number of optical assemblies:	1
CRI (minimum):	80	Control:	DALI-2

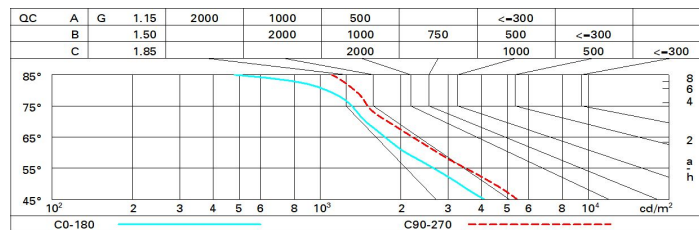
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	49	43	40	37	43	39	39	35	55
1.0	52	48	44	41	47	44	43	40	62
1.5	58	54	51	49	53	50	50	47	73
2.0	61	58	56	54	57	55	54	51	80
2.5	63	60	58	57	59	57	57	54	84
3.0	64	62	60	59	61	59	58	56	87
4.0	65	64	62	61	62	61	60	58	91
5.0	66	65	64	63	64	63	61	59	92

Luminance curve limit



UGR diagram

Corrected UGR values (at 2700 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise				
2H	2H	14.8	15.8	15.1	16.0	16.3	16.1	17.0	16.4	17.3	17.5
	3H	15.4	16.2	15.7	16.5	16.8	16.2	17.1	16.6	17.3	17.6
	4H	15.6	16.4	15.9	16.7	17.0	16.2	17.0	16.6	17.3	17.6
	6H	15.7	16.4	16.1	16.8	17.1	16.2	16.9	16.6	17.2	17.6
	8H	15.7	16.4	16.1	16.8	17.1	16.2	16.9	16.5	17.2	17.6
	12H	15.7	16.4	16.1	16.7	17.1	16.1	16.8	16.5	17.1	17.5
4H	2H	15.2	15.9	15.5	16.2	16.6	16.8	17.6	17.1	17.9	18.2
	3H	15.9	16.5	16.2	16.9	17.2	17.1	17.7	17.4	18.1	18.4
	4H	16.1	16.7	16.5	17.1	17.5	17.1	17.7	17.5	18.1	18.5
	6H	16.3	16.9	16.8	17.3	17.7	17.2	17.7	17.6	18.1	18.5
	8H	16.4	16.9	16.8	17.3	17.7	17.2	17.6	17.6	18.1	18.5
	12H	16.4	16.8	16.8	17.2	17.7	17.2	17.6	17.6	18.0	18.5
8H	4H	16.2	16.7	16.7	17.1	17.6	17.4	17.9	17.9	18.3	18.8
	6H	16.5	16.9	17.0	17.4	17.8	17.6	17.9	18.0	18.4	18.9
	8H	16.6	16.9	17.1	17.4	17.9	17.6	17.9	18.1	18.4	18.9
	12H	16.6	16.9	17.1	17.4	17.9	17.6	17.9	18.1	18.4	18.9
12H	4H	16.2	16.6	16.7	17.1	17.5	17.5	17.9	17.9	18.3	18.8
	6H	16.5	16.9	17.0	17.3	17.8	17.6	18.0	18.1	18.4	18.9
	8H	16.6	16.9	17.1	17.4	17.9	17.7	18.0	18.2	18.5	19.0
Variations with the observer position at spacing:											
S =		1.0H	0.6 / -0.7		0.3 / -0.6						
		1.5H	0.9 / -1.5		1.1 / -1.5						
		2.0H	1.9 / -2.0		2.2 / -2.0						